AUTODOC CLUB

How to change front brake discs on **BMW E90** – replacement guide

VIDEO TUTORIAL

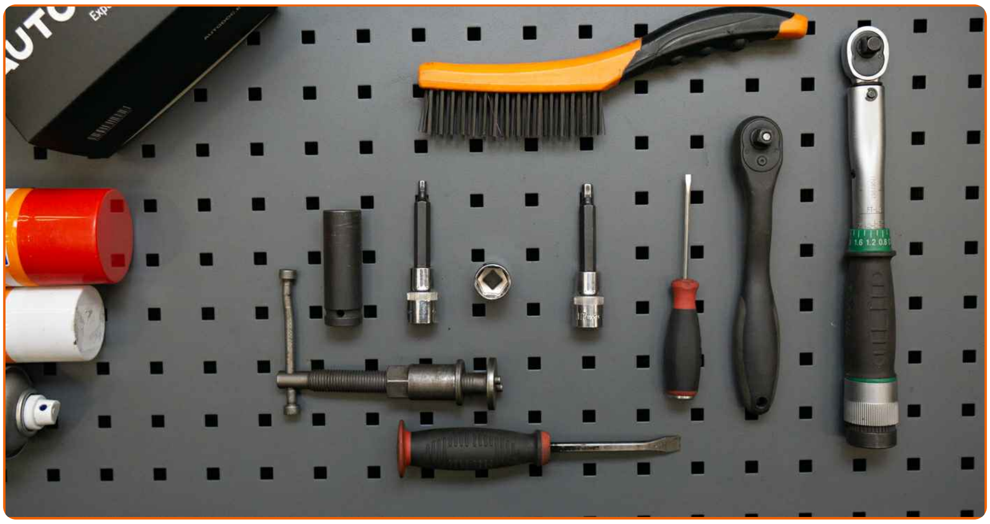


Important!

This replacement procedure can be used for:
BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 1 Hatchback (E81) 116i 1.6, BMW 1 Hatchback (E81) 120d 2.0, BMW 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 3 Saloon (E90) 320d 2.0, (+ 62)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E90. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Sealant
- Drive socket # 18
- HEX bit no.H6.
- HEX bit no.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

BUY TOOLS

AUTODOC recommends:

- Replace the brake disks on the car BMW E90 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – BMW E90 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.



2 Secure the wheels with chocks.



3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the front of the car and secure on supports.

5 Unscrew the wheel bolts.



AUTODOC recommends:

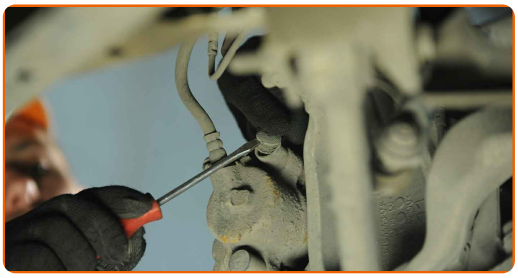
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. BMW E90

6 Remove the wheel.



7 Detach the brake caliper retaining spring. Use a flat screwdriver.

8 Remove the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.

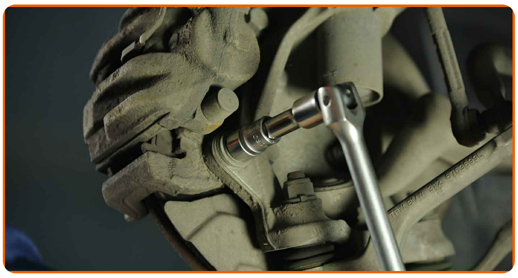


9 Spread the brake pads. Use a crowbar.

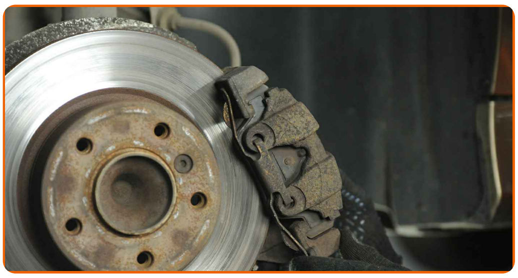


10 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

11 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



12 Remove the brake caliper.



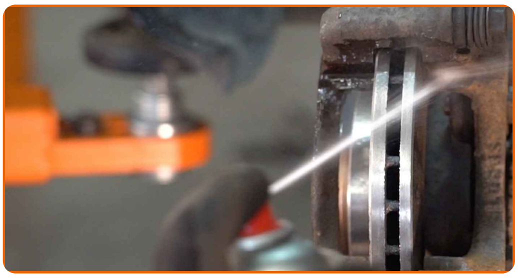
Replacement: brake discs – BMW E90. AUTODOC experts recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

13 Remove the brake pads.



14 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



15 Unscrew the caliper bracket fastening. Use a drive socket #18. Use a ratchet wrench.



16 Remove the fastening bolts (2 pieces).

17 Remove the caliper bracket.



18 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

19 Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.



20 Remove the brake disc.



21 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



22 Install the brake disc.



23 Tighten the brake disc fastening. Use HEX No.H6. Use a torque wrench. Tighten it to 16 Nm torque.



24 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

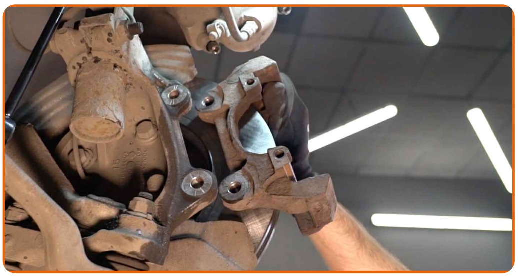


AUTODOC recommends:

- Replacement: brake discs – BMW E90. After applying the spray, wait a few minutes.

25 Treat the fastening bolts. Use a sealant.

26 Install the brake caliper bracket.



27 Install the fastening bolts (2 pieces).

28 Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



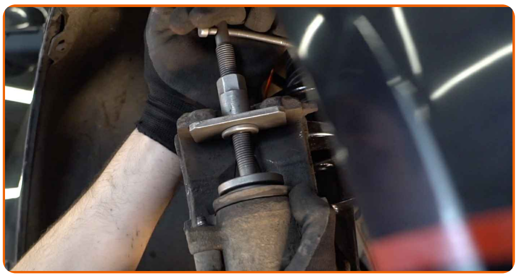
29 Treat the brake caliper piston. Use a brake cleaner.



Replacement: brake discs – BMW E90. AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

30 Press in the brake caliper piston. Use brake caliper wind back tool.



31 Install the brake pads.



32 Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



33 Install the dust boot caps of the brake caliper guide pins.



34 Install the brake caliper retaining spring. Use a flat screwdriver.



35 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



36 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW E90. After applying the spray, wait a few minutes.

37 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW E90

38

Screw in the wheel bolts. Use wheel impact socket #17.



39

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



Replacement: brake discs – BMW E90. Professionals recommend:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

40

Remove the jacks and chocks.



Replacement: brake discs – BMW E90. AUTODOC recommends:

- Check the brake fluid level in the expansion tank and refill if necessary.

41

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE!

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